J.158 : ITA -991 (80) -9

CURRENT INDUSTRIAL REPORTS



Titanium Ingot, Mill Products, and Castings

SEPTEMBER 1980

ITA-991 (80)-9 Issued November 1980

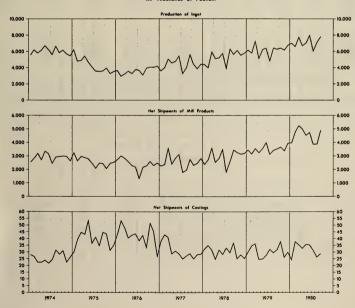
The total production of titanium ingot for September was 7.8 million pounds. This represented a 10-percent increase in production from 7.1 million pounds produced in August. Consumption of titanium ingot increase 43 percent from 5.8 mil-

lion pounds in August to 8.3 million pounds in September. Net

shipments of mill products increased 26 percent from 3.9 million pounds in August to 4.9 million pounds in September. Castings shipments increased 9 percent from 26.5 thousand pounds in August to 28.9 thousand pounds in September.

THIS REPORT INCLUDES DATA COMPARING DOMESTIC OUTPUT, EXPORTS, AND IMPORTS

TITANIUM INGOT AND MILL PRODUCTS BY MONTH: 1974 TO 1980 (In Thousands of Pounds)



Address inquiries concerning these figures to the U.S. Department of Commerce, Burseu of Industrial Economics, Materials Division, Washington, D.C. 20230, or to the Burseu of the Census, Industry Division, Washington, D.C. 20233, or call Stephen M. Pope, (3011) 763-8434.

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Table 1. TITANIUM INGOT, MILL PRODUCTS, AND CASTINGS: 1978 TO 1980

(Thousands of pounds)

			The state of the s		-	
		Ingot	1: 0	M111		
Month and year			Ending C	products		stings
	Production	Consumption	stocks	ahipments	, sn;	pments
			Describ	интристе»		
1980			1.	,		
1700					1-	
September	7,806	8,341	4,945	- 4.889	1	28.9
August	7,132	5,832	5,850	3,895		r26.5
July	6,103	6,368	4,942	3,881		31.5
		-				
June	8,029	7,835	4,705	4,760		35.5
May	7,057	6,573	4,706			35.9
April	6,727	6,891	4,038	5,006		33.0
March	7,794	7,950	4,144	5,256		35.6
February	6,621	6,790	4,346	4,777		38.1
January	7,029	7,276	4,356	3,987		24.7
1979²						

Total	74,520	71,974	(X)	42,243		368.6
December	6,973	6,335	4.442	3,966		30.2
November	5,958	6,144	4,107	3,406		26.5
October	6,477	6,870	4,685	3,676		38.3
September	6,279	7,040	4,602	3,538		32.0
August	6,359	5,452	4,444	3,436		29.8
July	5,032	4,688	4,334	3,149		32.3
June	6,579	5.856	4,401	4,029		27.8
May	6,095	5,449	4,367	3,573		25.1
April	5.345	5,577	4,197	3,266		24.9
March	6,983	6,349	4,368	3,571		36.5
February	5,858	5,447	3,947	3,170		34.9
January	6,582	6,767	4,039	3,464		30.3
1978²						
Total	64.022	62,328	(x)	35,297		657.1
December	5,784	5,532	4,310	3,207		25.5
November	5,546	5,717	3,886	3,160		28.3
October	6,141	6,740	4,654	3,279		25.5
September	5,660	5,305	5,122	3,474		37.4

rRevised by 5 percent or more from previously published figures. (X) Not applicable.

Table 2. NET SHIPMENTS OF TITANIUM MILL PRODUCTS

(Indusands of pounds)						
Product	September 1980	August 1980	September 1979			
Total	4,889	3,895	3,538			
Sheet and strip	1,211	1,009	644			
Forging and extrusion billet	1,895	1,738	1,132			
Rod and bar	853	596	918			
Fastener stock and wire	199	205	238			
Extrusion (other than tubing)		347	606			
Other	1					

 $^{^1\}mathrm{See}$ table 2 for more detailed data. $^2\mathrm{Data}$ for 1978 and 1979 will be revised in the summary report for 1979.

Table 3. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF TITANUIM MILL PRODUCTS: 1978 TO 1980

(Quantity in thousands of pounds; value in thousands of dollars)

	Manufac- Exports of domestic merchandise ^{1 2}		Percent Imports for exports to consumption 4		Calculated import	Apparent	Percent imports to			
Month and year	shipments ¹ (quantity)	Quantity	Value at port	Estimated producers' value3	turers' net	Quantity	Value ⁵	duty (value)	tion ⁶ (quantity)	apparent consumption (quantity)
1980										
September	4,889	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
August	3,895	243	4,422	4,214	6	292	3,229	583	3,944	7
July	3,881	429	4,872	4,643	11	119	1,226	208	3,571	3
June	4,760	202	3,274	3,120	4	127	999	177	4,685	3
May	4,544	233	3,970	3,783	5	114	842	146	4,425	3
April	5,006	188	3,118	2,971	4	119	1,085	192	4,937	2
March	5,256	226	3,448	3,286	4	163	823	207	5,193	3
February	4,777	280	3,843	3,662	6	133	868	137	4,630	3
January	3,987	206	2,769	2,639	5	145	971	172	3,926	4
1979										
December	3,966	416	3,773	3,596	10	149	861	154	3.699	4
November	3,405	414	3,308	3,153	12	255	1,538	258	3,246	8
October	3,676	518	4,201	4,004	14	147	754	133	3,305	4
September	3,538	135	1,598	1,523	4	111	687	114	3,514	3
August	3,436	165	1,829	1,743	5	153	701	104	3,424	4
July	3,149	145	2,092	1,994	5	80	799	127	3,084	3
June	4,029	222	2,269	2,162	5	102	673	119	3,909	3
Мау	3,573	281	2,693	2,566	8	210	1,087	185	3,502	6
April	3,266	65	873	831	2	229	1,048	186	3,430	7
March	3,571	155	1,851	1,763	4	234	1,187	208	3,650	6
February	3,170	66	817	778	2	90	375	62	3,194	3
January	3,464	49	605	576	1	124	656	102	3,539	4
1978					10000					
2270										
December	3,207	94	817	778	3	125	526	94	3.238	4
November	3,160	109	1,089	1,038	3	83	351	62	3,134	3
October	3,279	62	586	558	2	237	804	137	3,454	7
September	3,474	82	799	761	2 .	161	658	117	3,553	5
August	2,603	78	685	653	3	154	744	118	2,679	6

(NA) Not available.

1See table 4 for comparison of Standard Industrial Classification (SIC) codes, Export (Schedule E) codes, and Import (TSUSA) codes.
2Source: Bureau of the Census Report FT-410, U.S. Exports, Commodity by Country.
3 These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers value for exports, considering the producers of t

this report is .931.
*Source: Bureau of the Census Report IN 145-X, U.S. Imports for Consumption and General Imports.
*Source: Bureau of the Census Report IN 145-X, U.S. Imports for Consumption and General Imports.
*Seginning with 1978, the dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States
*Seginning with 1978, the dollar value represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States

⁶Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

Table 4. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES, EXPORT (SCHEDULE B) CODES, AND IMPORT (TSUSA) CODES

1980 SIC product code	SIC code description	1980 export code (Schedule B)	Export code description	1980 import code (TSUSA)	Import code description
33562 74 35562 79	Forging and extrusion billet Other (sheet, plate, tubing, bar, etc.)	630.6570	Wrought titanium metal including alloys (excluding sponge, ingots, billets, blooms, sheet, bars, slabs, waste, and scrap)	620.2000	Wrought titanium metal, including alloys (excluding waste and scrap and unwrought metal)

DESCRIPTION OF SURVEY

Scope of Survey—This survey covers firms engaged in manufacturing titanium ingot and mill products, including castings.

Sampling Description—The statistics in this publication were collected on the Bureau of Industrial Economics Form ITA-991, *Titanium Metal*. The mailing panel for this survey includes all known titanium ingot, mill product, and castings producers.

Survey Error—Figures for the current month include estimates for respondents whose reports were not received in time for tabulation. Such missing figures are "imputed" from month-to-month movements shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Individual items with imputation rates greater than 10 percent are fnotnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements. The probable range of difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Seasonal Adjustment—The data are not adjusted for seasonal variation or number of working days.

EXPLANATION OF TERMS

Net Shipments—Derived by subtracting the sum of producers' receipts of each mill shape from the industry's gross shipments of that shape.

Gross Shipments—Include the quantities of mill shapes consumed in rolling mills in the production of fabricated products such as forgings, etc. Also include the quantities of mill shapes shipped between producers.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is considerable of the commodity areas.

fication is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data:

a. Valuation—There are different methods of valuation for the three types of data.

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

- b. Duplication in Quantity and Value of Output—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.
- c. Low-Valued Export and Import Transactions—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501 effective March 1979 and for shipments valued under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.
- d. Manufacturers' Shipments, Not Specified by Kind—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.
- e. Time Lag Between Output and Exports-There will be a lag between the time a commodity is produced or shipped by

the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

- f. "Direct" vs "Total" Commodity Exports and Imports— Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.
- g. Used Commodities—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.
- h. Geographic Area of Coverage—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title

Current Industrial Reports

M3-1	Monthly	Manufacturers' Shipments, Inven- tories, and Orders
M33-2	Monthly	Aluminum Ingot and Mill Products
MA-33G	Annually	Magnesium Mill Products
MA-33B	Annually	Steel Mill Products
M33A	Monthly	Iron and Steel Castings
M33E	Monthly	Nonferrous Castings

Foreign Trac	de Reports	
FT-410	Monthly	U.S. Exports-Schedule E-Com-
IM 145-X	Monthly	modity by Country U.S. Imports for Consumption and
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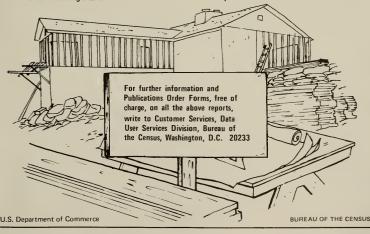
CURRENT CONSTRUCTION REPORTS

CONSTRUCTION accounts for approximately 11 percent of the gross national product!

To assist industry representatives, research specialists, market analysts, and government officials interested in this vital segment of the Nation's economy, the Bureau of the Census issues monthly, quarterly, and annual reports on the value of new construction put in place, building permits, housing starts, housing completions, housing sales, alterations and repairs and demolition of residential structures.

Current Construction Reports include: C20 - Housing Starts

- C21 New Residential Construction in Selected Standard Metropolitan Statistical Areas
- C22 Housing Completions
- C25 New One-Family Houses Sold and for Sale
- C27 Price Index of New One-Family Houses Sold
- C30 Value of New Construction Put in Place
- C40 Housing Authorized by Building Permits and Public Contracts
- C45 Permits Issued for Demolition of Residential Structures in Selected Cities
- C50 Expenditures on Residential Additions, Alterations, Maintenance and Repairs, and Replacements



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